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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,814	12/06/2004	Sang-Kyu Park	CU-3992 WWP	6646	
26530 LADAS & PAR	7590 01/22/2009 RRY LLP		EXAMINER		
	ICHIGAN AVENUE		SIEFKE, SAMUEL P		
SUITE 1600 CHICAGO, IL	60604		ART UNIT	PAPER NUMBER	
			1797		
			MAIL DATE	DELIVERY MODE	
			01/22/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)	
Office Action Summary		10/516,8	314	PARK, SANG-KYU	J
		Examine		Art Unit	
		SAM P. S	SIEFKE	1797	
The MAILING Period for Reply	G DATE of this commun	ication appears on th	ne cover sheet with th	ne correspondence ad	dress
A SHORTENED STWHICHEVER IS LOTE.  - Extensions of time may after SIX (6) MONTHS for If NO period for reply is:  - Failure to reply within the Any reply received by the	FATUTORY PERIOD F DNGER, FROM THE M DO E available under the provisions om the mailing date of this common specified above, the maximum start e set or extended period for reply the Office later than three months a strent. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no equinication. atutory period will apply and will, by statute, cause the approximation.	THIS COMMUNICAT event, however, may a reply b will expire SIX (6) MONTHS to explication to become ABANDO	ION.  be timely filed  from the mailing date of this co  DNED (35 U.S.C. § 133).	
Status					
2a)⊠ This action is 3)⊡ Since this ap	o communication(s) file  FINAL.  plication is in condition ordance with the practi	2b)∏ This action is for allowance excep	non-final. ot for formal matters,		merits is
Disposition of Claims					
4a) Of the above 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s) 8) ☐ Claim(s) Application Papers	is/are rejected. is/are objected to. are subject to restric	re withdrawn from o			
10) The drawing(s Applicant may Replacement of	tion is objected to by the sign of the sig	a) ☐ accepted or bection to the drawing(s) the correction is requ	be held in abeyance. ired if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CF	, ,
Priority under 35 U.S.	C. § 119				
a) All b) S  1. Certifie  2. Certifie  3. Copies  applica	nent is made of a claim Some * c) None of: ed copies of the priority ed copies of the priority of the certified copies ation from the Internation ed detailed Office action	documents have be documents have be of the priority docum nal Bureau (PCT Ru	en received. en received in Applionents have been rece le 17.2(a)).	cation No eived in this National	Stage
	a's Patent Drawing Review (F statement(s) (PTO/SB/08)	'TO-948)	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		

# **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Patel (USPN 5,053,339).

Patel discloses a perishable indicator for foods that comprises a semi-permeable membrane (barrier matrix layer, col. 8, lines 4-32), a packed layer containing a pH sensitive substance (col. 31, line 39-col, 32, line 42), a transparent film (col. 7, lines 36-51). Regarding claim 2, Patel discloses that the indicator can be in the form of letters printed in the form of a message (col. 8, lines 34-39.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patel (USPN 5,053,339) in view of Bae et al. (USPN 6,103,865).

Patel teaches a perishable indicator for foods.

Patel does not teach the specific reaction as seen claim 3 and 4.

Bae teaches pH sensitive polymers containing sulfonamides that comprises reacting sulfonamide group with N,N-dimethylacrylamide. It would have been obvious to one of ordinary skill in the art to modify Patel to employ a pH sensitive polymer as seen above because of their stability on a substrate.

# Response to Arguments

Applicant's arguments filed 9/26/08 have been fully considered but they are not persuasive. Applicant states, "However, the film according to the present invention has small pore sizes of about MWCO of 100-200, and, in food, it prevents permeation of nutrient and/or color substances of the food but allows passing of water and ionsthereby, the film according to the present invention has the barrier or sieve

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characteristics." In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., pore size) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant argues, "Further, the polymer of the present invention has amine attached to it such that it is chemically combined to the surface of the indicator. Even though basic substance of the chemical substances are considered to be similar, they exhibit different characteristics depending on the location and amount of amine that are attached to the chemical substance. Thus, they cannot be considered to be similar." In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the pH sensitive substance is a polymer with an amine) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAM P. SIEFKE whose telephone number is (571)272-1262. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel P Siefke/ Primary Examiner, Art Unit 1797